#### INDEX TO VOLUME XXXIX

AURICULAR muscle, influence of on myo and cardiodynamics, 239.

BECHT, F. C. See KEETON and BECHT, 109.

Blood, coagulation of in pleural cavity, 455.

—, effect of chloroform on coagulation of, 131.

-, ferments of, 9.

-, Oxygen capacity of, 77.

counts, in the frog, turtle and other animals, 31.

— pressure, estimations of by indirect methods, 401.

BOWMAN, J. T. See MILLER and Bow-MAN, 149.

BUCKNER, G. D., E. H. NOLLAU and J. H. KASTLE. The feeding of young chicks on grain mixtures of high and low lysine content, 162.

Burge, W. E. The mode of action of ultra-violet radiation in injuring living cells, with special reference to those constituting the eye, 335.

CARBON dioxide, content of, in blood during hibernation, 20.

Cardiac impulse, origin of in turtle's heart, 291.

Cardio-inhibitory center, the, 149.

Carlson, A. J. and H. Ginsburg.
Contributions to the physiology of
the stomach. XXX. The tonus and
contractions of the empty stomach
of infants with congenital pyloric
stenosis, pylorospasm and chronic
vomiting (Merycism), 310.

Cassiopea, nerve conduction and other reactions in, 375.

Cells, living, effect of ultra-violet radiation on, 335. Chenopodium, influence of on intestinal contractility, 37.

Chicks, effect of lysine on growth of, 162.

Chloroform, effect of, on blood coagulation, 131.

Coagulation. See blood, 131.

CONNET, H. See King and Connet, 123.

Coördination, in the earthworm, 139.
Crozier, W. J. Ionic antagonism in sensory stimulation, 297.

DALLWIG, H. C., A. C. Kolls and A. S. Loevenhart. The mechanism adapting the oxygen capacity of the blood to the requirements of the tissues, 77.

Decerebration, effect on gastric hunger contractions, 123.

Denny, G. P. and G. R. Minot. The coagulation of blood in the pleural cavity, 455.

Depressor nerve, influence of stimulation on suprarenal secretion, 54.

Dreaming, effect on gastric hunger contractions, 330.

Duodenum, regurgitation from, 459.

EARTHWORM, peristalsis and coordination in, 139.

ELSESSER, O. J. Contribution to the physiology of the stomach. XXXI. The effect of experimental partial stenosis of the pylorus on the motility of the empty stomach, 303.

ERLANGER, J. Studies in blood pressure estimations by indirect methods.

I. The mechanism of the oscillatory criteria, 401.

Eye, effect of ultra-violet radiation on, 335.

EYSTER, J. A. E. See MEEK and EYSTER, 291.

FAWCETT, G. G., J. M. RAHE, G. S. HACKETT and J. ROGERS. The effects of aqueous extracts of organs upon the contractions of unstriated muscle fibers, 154.

FAWCETT, G. G. See ROGERS, RAHE, FAWCETT and HACKETT, 345.

Ferments, of blood, 9.

Fish, resistance of to changes of chemical and osmotic conditions, 313.

Forbes, A. and A. Gregg. Electrical studies in mammalian reflexes. II. The correlation between strength of stimuli and the direct and reflex nerve response, 172, 491.

Frog, effect of nicotine on reflexes of, 447.

GARREY, W. E. and A. R. Moore. Peristalsis and coördination in the earthworm, 139.

GARREY, W. E. The resistance of fresh water fish to changes of osmotic and chemical conditions, 313.

Gesell, R. Initial length—initial tension and tone of auricular muscle in relation to myo and cardiodynamics, 239.

GINSBURG, H. See CARLSON and GINS-BURG, 310.

Glycemia, in relation to circulation of the liver, 480.

Gregg, A. See Forbes and Gregg, 172, 491.

HACKETT, G. S. See FAWCETT, RAHE, HACKETT and ROGERS, 154.

—. See ROGERS, RAHE, FAWCETT and HACKETT, 345.

HAWK, P. B. See Spencer, Meyer, Rehfuss and Hawk, 459.

Heart, origin of impulse in, 291.

Hibernation, oxygen and carbon dioxide content of blood during, 20.

HICKS, JR., C. J. and J. W. VISHER.
Contributions to the physiology of
the stomach. XXVII. The mechanism of regurgitation of duodenal
contents into the stomach, 1.

Howat, I. The effect of nicotine upon the reflex action of some cutaneous sense organs in the frog, 447.

Hypophysis, stimulation of, in dogs, 109.

INTESTINAL contractility, influence of oil of chenopodium on, 37.

Intestinal loop, the action of pituitary extracts upon, 268.

Intestine, effect of heavy metals on, 355.

KASTLE, J. H. See BUCKNER, NOL-LAU and KASTLE, 162.

KEETON, R. W. and F. C. BECHT. The stimulation of the hypophysis in dogs, 109.

KING, J. L. and H. CONNET. Contributions to the physiology of the stomach. XXIX. The gastric hunger contractions of the normal and decerebrate guinea-pig, 123.

Kolls, A. C. and A. S. Loevenhart. A respiratory chamber for small animals, 67.

——. See Dallwig, Kolls and Loevenhart, 77.

LIVER, circulation of in relation to glycemia, 480.

LOEVENHART, A. S. See DALLWIG, KOLLS and LOEVENHART, 77.

—. See Kolls and Loevenhart, 67.

Luckhardt, A. B. Contributions to
the physiology of the stomach.

XXXII. The effect of dreaming on
the gastric hunger contractions, 330.

Lysing, effect of on growth of young

Lysine, effect of on growth of young chicks, 162.

- MAYER, A. G. Nerve conduction, and other reactions in cassiopea, 375.
- McGuigan, H. and E. L. Ross. Liver circulation in relation to glycemia, 480.
- Meek, W. J. and J. A. E. Eyster. The origin of the cardiac impulse in the turtle's heart, 291.
- Metals, effect of on isolated intestine, 355.
- MEYER G. P. See Spencer, Meyer, Rehfuss and Hawk, 459.
- MILLER, F. R. and J. T. BOWMAN. The cardio-inhibitory center, 149.
- MINOT, G. R. See DENNY and MINOT, 455.
- —. The effect of chloroform on the factors of coagulation, 131.
- MITCHELL, C. W. See SALANT and MITCHELL, 37.
- —. See Salant and Mitchell, 355. Moore, A. R. See Garrey and Moore, 139.
- Muscle, effects of aqueous extracts of organs upon unstriated, 154.
- NERVE conduction, in cassiopea, 375.
- response, direct and reflex, 172, 491.
- Nicotine, effect of on reflexes in frog, 447.
- Nollau, E. H. See Buckner, Nollau and Kastle, 162.
- OXYGEN, content of in blood during hibernation, 20.
- capacity, of blood, mechanism adapting, 77.
- Organ extracts, effect of secretion, 345.
- PERISTALSIS, in the earthworm,
- Pituitary, the secretion of by stimulation of superior cervical ganglion, 279.
- Porter, W. T. and A. H. Turner. Further evidence of a vasotonic and a vasoreflex mechanism, 236.

- RAHE, J. M. See FAWCETT, RAHE, HACKETT and ROGERS, 154.
- —. See Rogers, Rahe, Fawcett and Hackett, 345.
- RASMUSSEN, A. T. The oxygen and carbon dioxide content of the blood during hibernation in the woodchuck (Marmota monax), 20.
- Reflexes, effect of nicotine on in frog,
- —, mammalian, electrical studies in, 172, 491.
- Regurgitation, mechanism of gastric, 1.
- Rehfuss, M. E. See Spencer. Meyer, Rehfuss and Hawk, 459.
- Respiratory chamber, for small animals, 67.
- RICHARDS, A. N. and W. G. WOOD.

  The influence of stimulation of the depressor nerve upon suprarenal secretion, 54.
- ROGERS, J., J. M. RAHE, G. G. FAWCETT and G. S. HACKETT. The effects upon the gastric secretion of organ extracts, 345.
- ROGERS, J. See FAWCETT, RAHE, HACKETT and ROGERS, 154.
- Ross, E. L. See McGuigan and Ross, 480.
- SALANT, W. and C. W. MITCHELL. The influence of heavy metals on the isolated intestine, 355.
- —. The influence of oil of chenopodium on intestinal contractility, 37. Secretion of pituitary, 279.
- Sensory stimuli, ionic antagonism in, 297.
- Shamoff, V. N. Concerning the action of various pituitary extracts upon the isolated intestinal loop, 268.
- —. On the secretory discharge of the pituitary body produced by stimulation of the superior cervical sympathetic ganglion, 279.
- Shipley, J. L. See Wheelon and Shipley, 394.

- SLOAN, L. H. The origin of the proteolytic ferments of the blood. The question of the specific character of certain ferments, 9.
- Spencer, W. H., G. P. Meyer, M. E. Rehfuss and P. B. Hawk. Gastrointestinal studies. XII. Direct evidence of duodenal regurgitation and its influence upon the chemistry and function of the normal human stomach, 459.
- Stomach, effect of dreaming on gastric hunger contractions, 330.
- -, normal function of human, 459.
- —, effect of organ extracts on secretion of, 345.
- —, effect of stenosis in infants on motility of, 310.
- —, effect of stenosis on motility of, 303.
- -, hunger contractions of, 123.
- —, regurgitation of duodenal contents into, 1.
- Suprarenal secretion, influence of stimulation of depressor nerve upon, 54.
- SUTTON, JR., J. E. See Wells and Sutton, 31.

- TESTICULAR transplants, effect on vasomotor irritability, 394.
- Turner, A. H. See Porter and Turner, 236.
- ULTRA-VIOLET radiation, effect on living cells, 335.
- Unstriated muscle, effects of aqueous extracts of organs upon, 154.
- VASOMOTOR irritability, effect of testicular transplants on, 394.
- Vasoreflex, further evidence of a, mechanism, 236.
- Vasotonic, further evidence of a, mechanism, 236.
- VISHER, J. W. See HICKS and VISHER,
- WEILS, J. J. and J. E. SUTTON, JR.

  Blood counts in the frog, the
  turtle and twelve different species of
  mammals, 31.
- Wheelon, H. and J. L. Shipley. The effects of testicular transplants upon vasomotor irritability, 394.
- Wood, W. G. See RICHARDS and Wood, 54.

## **EFFICIENCY**

The Principles of Scientific Shop Management as Applied to the Printing Business

WE manufacture the American Journal of Physiology. We produce between 40 and 50 other scientific and technical periodicals in addition to a large number of single volumes of transactions and proceedings

¶All are handled on a definite schedule maintaining the highest standard of mechanical workmanship

## Waverly Press

WILLIAMS & WILKINS COMPANY

2419-2421 GREENMOUNT AVE.

BALTIMORE, MD.

U. S. A.

# ORIGINAL IN CHARACTER UNIQUE IN PRESENTATION WORTHY IN EFFECTIVENESS

#### **ACTIVE INTERNAL SECRETION:**

LUTEIN TABLETS, H. W. & CO. Supply ovarian deficiency. Each tablet represents 20 grains of corpus luteum.

#### PERMANENT SUSPENSION IN AMPULES:

MERCURY SALICYLATE. For intramuscular injection. In 1 and 2 grain sizes. 12 ampules in a box.

#### KIDNEY FUNCTIONAL TEST:

PHENOLSULPHONEPHTHALEIN. For testing renal efficiency. Solution in ampules. One test in each ampule.

#### NEW CONVENIENT DIAGNOSTIC AGENT:

UREASE-DUNNING. For the accurate estimation of urea. In tablets. 40 in package. One for each estimation.

Stocked by leading jobbers, also by enterprising pharmacists and supply houses

Literature and special information furnished upon request

### The HYNSON, WESTCOTT and COMPANY

Pharmaceutical Laboratory

BALTIMORE

MARYLAND

SS

Y ND